Reference number: 109/2020

**RESEARCH ASSISTANT (M/F/D)**

Initially limited until 30 September 2021 (permanent employment will be sought)
100% of a full-time position
Planned salary: up to Entgeltgruppe 15 TV-L

The Institute of Theoretical Physics at the Faculty of Physics and Earth Sciences seeks to fill the above position at the earliest opportunity.

A candidate (m/f/d) is sought with special knowledge and experience in the field of spin dynamics theory with respect to fundamental aspects and applications of magnetic resonance in solids. In particular, expertise is expected in the use of modern methods for the calculation or simulation of spin-spin relaxation in solids, interactions of nuclear spins with different realisations of solid-state qubits, and applications of magnetic resonance in the study of strongly correlated electronic systems. In addition, the candidate is expected to show an interest in the theoretical formulation of the fundamentals of nuclear spin relaxation and diffusion in complex micro-structured environments or biological systems. Also desirable is a willingness to engage in interdisciplinary research within the Faculty and with the Max Planck Institute for Human Cognitive and Brain Sciences in Leipzig.

**Tasks**
- Leading an independent research group that deals with the above research topics
- Establishment and development of a new research area in the field of theoretical solid state physics, with a special focus on the theoretical physics of condensed matter on new aspects of quantum physics in nuclear magnetic resonance in general and specialising in correlated electronic materials such as high-temperature superconductors, but also with respect to collective excitations of spin systems
- Initiation of joint projects with local experimental groups
- Commitment to undergraduate teaching in theoretical physics, as well as the development of courses of study that enhance the Institute’s teaching profile
- Training and supervision of doctoral candidates and postdoctoral researchers, as well as of the candidate’s own and collaborating groups
- Successful acquisition of external funding
- Supporting the Faculty in setting and achieving strategic goals in research and teaching
- Independent and autonomous academic teaching and further development of curricula
- Development of new lectures that are particularly challenging and important for the Faculty, University and external partners
- Application for EU and DFG-funded individual and collaborative projects (CRC).

**Requirements**
- Doctorate and habilitation in physics
- Outstanding academic career which includes work on the above topics
- Experience with supervising doctoral students and acquiring external funding
- Experience with managing an independent research group
- Independent research (mainly externally funded) focusing on the above points
- Experience with cooperating with experimental groups
- International standing
- Experience of undergraduate and research-based teaching.

Please send your application with the usual documents, quoting reference number 109/2020, to:

dekan@physik.uni-leipzig.de

or

Leipzig University
Faculty of Physics and Earth Sciences
Dean Professor Christoph Jacobi
Linnéstraße 5
04103 Leipzig

by no later than 19 June 2020.

Please note that applying by email is not entirely secure and may pose a privacy risk. The sender assumes full responsibility.

Severely disabled persons are encouraged to apply and will be given preference in the case of equal suitability.

Privacy information

The personal data contained within your application documents or obtained during the interview will be processed exclusively for the purposes of the selection process for the position advertised. The legal basis for such data processing is Section 11(1) of the Saxon Data Protection Implementation Act (Sächs DSGD) in conjunction with the EU General Data Protection Regulation (GDPR). The controller for the application process within the meaning of the GDPR is the addressee of the application, as specified in the respective advertisement. When processing your application, your personal data will be passed on within Leipzig University to

- members of the selection committee
- the human resources management teams
- the Commissioner for Equal Opportunities,
- the Disability Officers and,
- if necessary, the Staff Council

as part of their organisational or statutory responsibilities.

Your personal data will be erased no later than six months after completion of the selection process. In accordance with the GDPR, subject to the relevant statutory requirements you have the following rights vis-à-vis the addressee of the application with regard to your personal data: right of access (Art. 15 GDPR), right to rectification of inaccurate personal data (Art. 16 GDPR); right to erasure (Art. 17 GDPR), right to restriction of processing (Art. 18 GDPR); and right to object to processing (Art. 21 GDPR). If you have any questions, please contact the Data Protection Officer at Leipzig University (office: Augustusplatz 10, 04109 Leipzig). You also have the right to lodge a complaint with the Saxon Commissioner for Data Protection.